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II. Amendment to the Claims

Claims 1-2, 4-6 and 8-10 are pending in the present application. Please amend Claims 1, 2, 6 and 8 as set forth below. This version and listing of the claims replaces all prior versions and listings of the claims.

1. (currently amended) A composite sensor for a door, comprising:

a radio-wave transmitter-receiver section for forming a radio-wave detection zone for detecting an object at a location remote from said door; and

a light emitter-receiver section for forming an optical detection zone for detecting an object at a location along and closer to said door;

said light emitter-receiver section including optical detection zone modifying means which ~~increases or decreases a depth dimension of said optical detection zone in a direction perpendicular to said door~~ fixes the position of an edge closer to said door of said optical detection zone and moves an edge remote from said door of said optical detection zone in a direction perpendicular to said door to thereby increase or decrease a dimension of said optical detection zone in the direction perpendicular to said door.

2. (currently amended) The composite sensor according to Claim 1 wherein said light emitter-receiver section comprises a light emitter and a light receiver; and said optical detection zone modifying means comprises reflecting means for said light emitter for reflecting light beams emitted by said light emitter-receiver section from said light emitter, reflecting means for said light receiver for reflecting light beams toward said light receiver, and light-collecting means for said light emitter for collecting light beams from said light emitter, and light-collecting means for said light receiver for collecting light beams to be received by said light emitter-receiver section toward said light receiver; said reflecting means for said light emitter, said reflecting means for said light receiver, said light-collecting means for said light emitter and said light-collecting means for said light receiver being united together; said

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reflecting means for said light emitter, said reflecting means for said light receiver, said light-collecting means for said light emitter and said light-collecting means for said light receiver said reflecting means and said light-collecting means collaborating being synchronously rotated to increase or decrease the depth dimension of said optical detection zone in the direction perpendicular to said door.

3. (canceled)

4. (previously presented) A composite sensor for a door for forming a first detection zone for detecting an object with a radio wave at a location remote from said door, and a second detection zone for detecting an object with light beams at a location along and closer to said door;

first judging means judging whether an object has been detected in said first detection zone;

second judging means judging whether an object has been detected in said second detection zone;

third judging means judging whether the judgment made by said second judging means is valid; and

fourth judging means judging whether an object is present in accordance with the judgments made by said first and second judging means when said third judging means judges that the judgment made by said second judging means is valid, and judging whether an object is present in accordance with the judgment made by said first judging means when said third judging means judges that the judgment made by said second judging means is invalid.

5. (previously presented) The composite sensor according to Claim 4 wherein said third judging means judges that the judgment made by said second judging means is valid when an object is detected in said first detection zone continuously for a first time period.

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6. (currently amended) The composite sensor according to Claim 4 wherein said third judging means judges that the judgment made by said second judging means is valid for a selected time period after ~~when~~ an object is detected in said first detection zone.

7. (canceled)

8. (currently amended) A composite sensor for a door for forming a first detection zone for detecting an object with a radio wave at a location remote from said door, and a second detection zone for detecting an object with light beams at a location along and closer to said door;

said composite sensor including an environmental condition sensor for detecting an environmental condition around said door, and invalidating means for making a result of detection in said second detection zone invalid when an environmental condition around said door affects an environmental condition detection made by said environmental condition sensor is judged to affect said result of detection in said second detection zone.

9. (previously presented) The composite sensor according to Claim 4 wherein said third judging means judges that the judgment made by said second judging means is valid when an object is detected continuously for a time period in said second detection zone.

10. (previously presented) The composite sensor according to Claim 4 wherein said third judgment means judges that the judgment made by said second judging means is valid when an object is detected in said first detection zone.